Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A computer-implemented framework for associating data with a command object, the command object being arranged to operate on the data, wherein the data is associated with an application, the computer-implemented framework comprising:

a data handler mechanism arranged as a generic interface with the application, wherein the generic interface allows use of new command objects without modifying the application;

a data retriever mechanism in communication with the data handler mechanism, the data retriever mechanism being arranged to obtain the data and to pass the data to the data handler mechanism; and

a mapping mechanism in communication with the data handler mechanism, the mapping mechanism being separate from the data handler mechanism, the mapping mechanism being arranged to obtain a command list for the application to display through the data handler mechanism, the command list including the command object obtained by the mapping mechanism based substantially on the data, wherein the command object is executed by the application upon selection of the command object from the command list,

wherein the command list includes a plurality of command objects including the command object, the plurality of command objects being usable by a plurality of applications.

- 2. (Original) A computer-implemented framework according to claim 1 wherein the data is a stream of bytes, and the data handler mechanism is further arranged to bind the stream of bytes to the command object.
- 3. (Original) A computer-implemented framework according to claim 1 wherein the data retriever mechanism includes a data content handler mechanism in communication with the data handler mechanism, the data content handler mechanism being arranged to convert the data into a data object, wherein the data handler mechanism is further arranged to bind the data object to the command object.



- 4. (Original) A computer-implemented framework as recited in claim 3 wherein the data object is created using the JavaTM programming language, and the command object is a JavaTM command object.
 - 5. (Original) A computer-implemented framework as recited in claim 1 wherein the data is one of text data and image data.
 - 6. (Original) A computer-implemented framework as recited in claim 1 wherein the data handler is further arranged to receive a request from the application, to bind the data to the command object, and to return the command object to the application.
 - 7. (Original) A computer-implemented framework as recited in claim 1 wherein the data retriever includes a data source mechanism arranged to obtain a stream of bytes and a data content handler mechanism arranged to convert the stream of bytes into a data object, the data source mechanism being in communication with the data content handler mechanism, wherein the data handler mechanism is further arranged to bind the data object to the command object.
 - 8. (Original) A computer-implemented framework as recited in claim 1 wherein the mapping mechanism includes a look-up table arranged to associate the command object with the data.
 - 9. (Currently Amended) A computer-implemented method for associating data with a command object in response to a request from an application, the method comprising:

accessing the data through an interface in response to the request from the application, the interface being independent from the application and in communication with the application, wherein the request from the application is processed by the interface, the interface allowing use of new command objects without modifying the application;

accessing a mapping mechanism which is in communication with the interface, the mapping mechanism being independent from the application such that the mapping mechanism is not a component of the application, the mapping mechanism being maintained separately from the interface, the mapping mechanism further being arranged to locate an installed command object that is appropriate for the data, wherein the mapping mechanism is accessed by the interface;

obtaining the command object that is appropriate for the data from a displayable command list identifying commands associated with the data, wherein the mapping mechanism obtains the command object and passes the obtained command object to the interface;

binding the command object to the data, wherein the interface binds the command object to the data; and

returning the command object to the application to allow execution of the command object,

wherein the command list includes a plurality of command objects including the command object, the plurality of command objects being usable by a plurality of applications.

10. (Original) A computer-implemented method as recited in claim 9 wherein accessing the data through an interface includes:

passing a stream of bytes to a data content handler mechanism arranged to create a data object from the stream of bytes; and

passing the data object to the interface, wherein the data is the data object.

- 11. (Original) A computer-implemented method as recited in claim 10 wherein the data object is created using the JavaTM programming language, and the command object is a JavaTM command object.
- 12. (Original) A computer-implemented method as recited in claim 9 wherein accessing the data through the interface includes accessing a data retriever which is arranged to obtain the data, wherein the data is a stream of bytes.
- 13. (Original) A computer-implemented method as recited in claim 9 further including operating on the data using the command object.
- 14. (Original) A computer-implemented method as recited in claim 9 wherein the command object that is appropriate for the data is selected from a set of command objects associated with a command list, the command list being associated with the data, the method further including accessing the command list, wherein the command list is accessed by the interface.



(Original) A computer-implemented method as recited in claim 14 wherein accessing the 15. command list includes receiving a request for a command list from the application, the request for the command list being received by the interface, wherein the interface performs the steps of: obtaining a type associated with the data; obtaining the command list through the mapping; and returning the command list to the application.

16. (Currently Amended) A computer program product for associating data with a command object in response to a request from an application, the computer program product comprising:

computer code for accessing the data through an interface in response to the request from the application, the interface being independent from the application and in communication with the application, wherein the request from the application is processed by the interface, the interface allowing use of new command objects without modifying the application;

computer code for accessing a mapping mechanism which is in communication with the interface, the mapping mechanism being independent from the application such that the mapping mechanism is not a part of the application, the mapping mechanism further being separately maintained from the interface, the mapping mechanism further being arranged to locate an installed command object that is appropriate for the data, wherein the mapping mechanism is accessed by the interface;

computer code for obtaining the command object that is appropriate for the data from a displayable command list identifying commands associated with the data, wherein the mapping mechanism obtains the command object and passes the obtained command object to the interface:

computer code for binding the command object to the data, wherein the interface binds the command object to the data; and

computer code for returning the command object to the application to allow execution of the command object, and

a computer-readable medium that stores the computer codes,

wherein the command list includes a plurality of command objects including the command object, the plurality of command objects being usable by a plurality of applications.

17. (Original) A computer-readable medium as recited in claim 16 wherein the computer program code devices configured to cause the computer to access the data through an interface include computer program code devices configured to cause a computer to execute the steps of:

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passing a stream of bytes to a data content handler mechanism arranged to create a data object from the stream of bytes; and

passing the data object to the interface, wherein the data is the data object.

- 18. (Original) A computer-readable medium as recited in claim 17 wherein the data object is created using the JavaTM programming language, and the command object is a JavaTM command object.
- 19. (Original) A computer-readable medium as recited in claim 16 further including computer program code devices configured to cause the computer to operate on the data using the command object.
- 20. (Original) A computer-readable medium as recited in claim 16 wherein the command object that is appropriate for the data is selected from a set of command objects associated with a command list, the command list being associated with the data, the computer-readable medium further including computer code devices configured to cause the computer to access the command list through the interface.
- 21. (Previously presented) A computer-implemented framework according to claim 16 wherein the command object is obtained by the mapping mechanism based substantially on the data without an external input from a user of the application.
- 22. (Previously presented) A computer-implemented framework according to claim 16 wherein the command object is obtained by the mapping mechanism based substantially on the data without directly involving the application.
- 23. (Currently Amended) A computer-implemented framework for associating data with a command object, the command object being arranged to operate on the data, wherein the data is associated with a selected application, the computer-implemented framework comprising:

a data handler mechanism arranged to interface with a plurality of applications, the plurality of applications including the selected application, wherein the data handler mechanism is independent from the plurality of applications and allows use of new command objects without modifying the application;



a data retriever mechanism in communication with the data handler mechanism, the data retriever mechanism being arranged to obtain the data and to pass the data to the data handler mechanism; and

a mapping mechanism in communication with the data handler mechanism, the mapping mechanism being substantially separate from the data handler mechanism, the mapping mechanism being arranged to obtain the command object from a command list identifying commands associated with the data to the plurality of applications for display, the command list provided by using a data handler mechanism, wherein the mapping mechanism is associated with the plurality of applications and is arranged to obtain the command object for execution without directly involving the selected application.

wherein the command list includes a plurality of command objects including the command object, the plurality of command objects being usable by a plurality of applications.

- 24. (Original) A computer-implemented framework as recited in claim 23 wherein the mapping mechanism and the data handler mechanism are separately maintained.
- 25. (Original) A computer-implemented framework as recited in claim 23 wherein the mapping mechanism is not a component of the data handler mechanism.
- 26. (Previously presented) A computer-implemented framework as recited in claim 1 wherein the mapping mechanism and the data handler mechanism are separately maintained.
- 27. (Previously presented) A computer-implemented framework as recited in claim 23 wherein the mapping mechanism is not specific to the application while the data handler mechanism is substantially specific to the application.
- 28. (New) A computer-implemented method for executing a command object, the method comprising:

requesting a data object corresponding to the command object using a data handler; creating a data content handler associated with the data object based on a data type associated with the data object;

retrieving a byte stream from a data source using the data handler; constructing the data object based on the byte stream; forwarding the data object from the data content handler to the command object;



performing a function by allowing the command object to act on the data object.